

GALT TRAFFIC

The Monthly Newsletter of EAA Chapter 932 at Galt Airport (10C) Greenwood, IL 60097 Articles may be reprinted if credit is given
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MAY – JUNE 2002

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EAA 932 AIR ACADEMY SCHOLARSHIP CONTEST RESULTS

EAA Chapter 932 is proud to announce the winners of its first *EAA Air Academy Scholarship Contest*. The contest judges were surprised at the exceptional quality of the entries, making the selection process very difficult – every entry could have been a winner. The number of entries received was: In the 12-13 years old group (7) 14-15 years old group (6) and 16-18 years old group (7).

The *EAA Primary Aviation Fun Camp* contest (12-13 years old) was so close that the board decided to award two scholarships. One to **Ted Domski**, 13, Richmond and the second to **Dan Morris**, 12, Woodstock. You all know Ted from EAA 932 events. He's the son of Chapter Vice President Greg Domski who excluded himself from the judging.

The winner of the *EAA Intermediate Aviation Experience Camp* scholarship (14-15 years old) is **Michelle Marsh**, 14, Wonder Lake.

The winner of the (16-18 years old) *EAA Advanced Leadership Camp* scholarship is **Ryan Flack**, 15 of Crystal Lake. Ryan is a freshman at Prairie View High School and dreams of a career in aviation.

All applicants shared several characteristics. They are all good students, "b" averages or better. They are active in sports and extra curricular activities and of course they are all, if not totally enamored with aviation, at least very curious about it. All Chapter 932 members can be proud of their part in sending these bright youngsters to Oshkosh where the seeds of a lifelong love affair with aviation will be nurtured. (Also, see following article – Ed.)

JUNE MEETING AND APPLICANT APPRECIATION DAY

At the May meeting the membership voiced their heartfelt thanks to John Theriault for his expert managing of the Air Academy Scholarship contest. John has written a letter to each applicant thanking him or her for taking part but in addition, the chapter will hold an "applicant appreciation day" following the June 8th meeting – sort of an expanded Young Eagles Rally. We'll grill burgers and brats and make sure each applicant and family member who would like a plane ride, gets one. Please come and help out and meet some of our community's brightest and best kids – the future of aviation.

EAA 932 PANCAKE BREAKFAST

Father's Day Weekend, June 15th & 16th is Chapter 932's annual Fly-In/Drive-In Breakfast. We are serving from 8 AM to Noon. We plan to handle it the same as last year. The folks from the Big Foot Chapter will bring us their cooking gear and we will take them our tent for use at their Fly-In Breakfast the following weekend.

We need everyone's help. We'll be setting up the tent at Galt Thur. June 13, 7 PM (rain date, Friday). The week of the 17th – 21st, we will take the tent down, take it to Big Foot and re-erect it. Then, Sunday June 23rd, we will take it down and bring it home. You are invited to attend a brief meeting of the event chairs Wed (Jun. 5) at Galt at 7 PM at which time we will try to "tie up the loose ends".

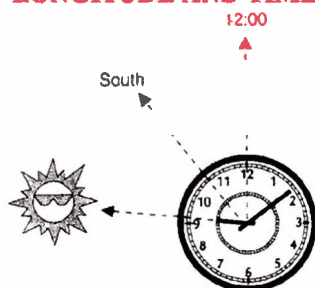
Greg Domski (847-973-0621) is in charge of cooking and **Mark Krohn (815-459-7201, or markk@truthmail.com)** is in charge of set-up and tear-down.

This should be a fun way to spend Father's Day weekend. We'll be flying Young Eagles (and Old Dads) Sunday PM, so there'll be action in addition to a great breakfast. Bring Dad, and bring the kids. Please try to lend us a hand either or both days.

May Issue

I finally had a hard drive crash and the May issue, at the last minute, was blown away. Sorry, I'll be better at backing-up in the future. – Ed.

LONGITUDE AND TIME



For fun, hold your watch (horizontally) point the hour hand at the Sun. South is halfway between the hour hand and 12.

By Jeff Hill, Sr.

Pilots love maps, charts, compasses plotters and all manner of navigational paraphernalia. Pilots know seafaring and land explorers mapped the globe long before there was LF/HF/VHF radio navigation, LORAN, OMEGA and GPS.

In studying our navigational heritage (think Columbus, Magellan, Lewis and Clark) we encounter the interesting problem of *Longitude*. Now, *Latitude* (North and South) is easy. The earth is a "ball" that rotates, therefore, there is an axis of rotation. We call one end of that axis the North Pole and the other, the South Pole. A star located on Earth's extended axis of rotation (ex. Polaris) will appear to be stationary. One can measure the angle to it and calculate (look up in tables) Latitude. Even the ancients had a handle on Latitude.

Now *Longitude* (East and West) is trickier. There is no East-West pole. Where are the beginning and the end of East and West? "That's easy, Paris" said the French. "Oh, no!" said the Brits, "'tis London, of course. Well, the one with the most 'say so' gets to say so, so we have the Prime Meridian running through the London suburb of Greenwich.



"Point Zero" at Notre Dame, Paris

But how to determine ones distance from the Prime Meridian? There are complicated celestial solutions, but the easy method is to compare the time at London with the sun's position at the observers location, ex: if the sun is directly overhead (noon) and it is 6 PM in London, we are at 090° West because the sun has, it appears, traveled 90 degrees (15° per hr.) in the six hours since it was noon there. The secret of Longitude is time. But we must have the exact time, because a one minute error in time = a 5 mile error in Longitude (at the equator).

The 18th century inventor John Harrison, after nearly a lifetime of effort, designed and built a clock that was good enough to be carried aboard ship and

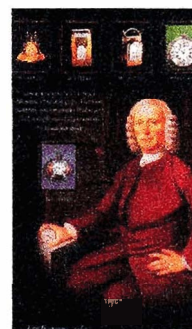
be used, with a sextant, to accurately determine Longitude. For two hundred years, the ship's clock was guarded like the Norden bombsights of WWII.



Sharon and Jeff Hill at

Long, 000° Greenwich, UK will also see the red ball (ala Times Square) that drops precisely at noon so ships on the Thames can, as they have for over 100 years, set their clocks to the exact Greenwich Mean Time (GMT). In recent years GMT has been re-designated UTC, an acronym for the French phrase meaning, "Coordinated Universal Time". A consolation prize for the French, having lost the Prime Meridian!

An interesting book on this subject is "*Longitude*" by Dava Sobel (Penguin Books, \$11.95). Pictured here is John Harrison and his famous clocks (1765)



FLY - IN CALENDAR

For the latest in Fly-In information and aviation events, check these web sites:

Illinois: www.state.il.us/aero/index.html

Wisconsin: www.dot.state.wi.us/dtid/boa

EAA: www.eaa.org

AOPA: www.aopa.org

EAA Chapter 932: www.eaa932.org

EAA 932 Member Meetings 2nd Saturdays

EAA 932 Young Eagles 3rd Sundays Mar. – Nov.

Jun 5 Pancake breakfast chairmen, Galt, 7 PM

Jun 8 Meeting, Applicant Appreciation Day, 10 AM

Jun 13 Tent set-up Galt 7 PM

Jun 15-16 Fly-In/Drive-In Pancake Breakfast. Young Eagles Sunday only. Tent tear-down

Jun 20 Tent to Big Foot. Fri rain date. Bring home Sun. PM

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